

To: Zillich, Cathleen[czillich@blm.gov]; Schmittiel, Paula[Schmittiel.Paula@epa.gov]; Way, Steven[way.steven@epa.gov]; Wall, Dan[wall.dan@epa.gov]; Rob Runkel[runkel@usgs.gov]
From: Lewis, Brent
Sent: Mon 4/28/2014 5:03:30 PM
Subject: Re: This may be of interest

All,

I'm available this week to meet on OTEQ and mornings are always best for me. The OTEQ SOW was intentionally written broadly so we could easily accommodate new scenarios as they arise; hence the SOW states "*at a minimum*" we'd assess the Red & Bonita and the previous WTP. Other than the current budget, there's no upper boundary on the number of runs. As Dan suggests, additional river distance past A72 is definitively warranted so this may require a SOW modification that we need to discuss with Rob.

Given the comments regarding background, i.e., natural inputs, at the commissioner meeting last week it appears it would need more assessment; however, I agree with others that it's not an immediate goal and may not be necessary at all.

As far as the involving CDPHE, I vote they can have their input during the ARSG meetings.

On Mon, Apr 28, 2014 at 8:29 AM, Zillich, Cathleen <czillich@blm.gov> wrote:

I am busy Tuesday 1 - 3, but you can have this discussion without me. The Agreement that BLM has with USGS outlines two scenarios.(pasted below). I do not know how it would change the funding if we were to ask for different or more scenarios. Last communication with Rob was that he would do two assumed reductions from Red&Bonita (was it 50% and 80% reduction?), so already we are not doing exactly what is in SOW, so now is a good time to make sure we are getting scenarios that help us the most.

A) STATEMENT OF WORK TASKS AND DELIVERABLES

The primary purpose of this IGO is to extend the calibrated model to site A72 on the Animas River downstream of Silverton, and to conduct a preliminary analysis of potential remedial action scenarios. Specific tasks include:

- February 2014. Compile all relevant low-flow data for Cement Creek from Gladstone to A72.
- February 2014-April 2014. Extend calibrated model from the South Fork of Cement Creek to A72. Compile list of data gaps that potentially affect our ability to

estimate post-remediation water quality.

- April 2014-July 2014. Preliminary model simulations to estimate post-remediation water quality. At a minimum, these simulations will consider the following two scenarios: (1) placement of a bulkhead in the tunnel draining the Red and Bonita mine; (2) treatment of all waters upstream of Gladstone in a manner similar to that of the previously operated treatment plant. Predictive simulations will consider the uncertainty of the proposed remedial actions (e.g. consideration of leakage from the Red and Bonita Bulkhead) and variability in chemical inputs from contributing watersheds (e.g. diel variation in metal concentrations coming from the Upper Animas watershed as measured at site A68).
- July 2013. Present results to the Animas River Stakeholders Group in Silverton CO. This will be a formal presentation of the model and the two scenarios at a meeting. The deliverable will be a pdf file and handouts covering the findings and recommendations. Hardcopies shall be made available for up to 20 people.
- Provide written notification to BLM when 80% of the project funds have been expended.

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On Fri, Apr 25, 2014 at 9:47 AM, Schmittdiel, Paula <Schmittdiel.Paula@epa.gov> wrote:

We should discuss. Its on my list to get a meeting/conference call set up ASAP to discuss what scenarios we might want Rob to run on the model. Unfortunately, my only day next week that I'm available would be Tuesday afternoon. I thought after we had put together our ideas on scenarios, the we would run them by ARSG.

It might be good to include the State (CDPHE) in our discussion – what does everyone think? What do your schedules look like for Tuesday afternoon?

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From: Wall, Dan
Sent: Thursday, April 24, 2014 5:54 AM
To: Way, Steven; Schmittdiel, Paula; Brent Lewis (Brent_Lewis@blm.gov); Zillich, Cathleen
Subject: This may be of interest

Since the OTEC piece is up and calibrated, it may not be much of a stretch for USGS to go down this path **IF** background is needed.

Dan

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